

FEDERAL R&D BUDGET AUTHORITY  
BY BUDGET FUNCTION



Table 1. Federal R&D and R&D plant budget authority, by budget function: fiscal years 2001–03

2003 rank	Budget function	2001	2002	2003	Percent change	
		actual	preliminary	proposed	2001–02	2002–03
	Total.....	91,505	103,104	112,000	12.7	8.6
1	National defense.....	46,202	53,478	58,774	15.7	9.9
2	Health.....	21,023	24,123	27,502	14.7	14.0
3	Space research and technology.....	8,951	9,297	9,839	3.9	5.8
4	General science.....	6,353	6,574	6,710	3.5	2.1
5	Natural resources and environment.....	2,138	2,211	2,181	3.4	-1.4
6	Agriculture.....	1,826	2,013	1,824	10.2	-9.4
7	Transportation.....	1,654	1,713	1,573	3.5	-8.2
8	Energy.....	1,320	1,565	1,415	18.5	-9.6
9	Veterans benefits and services.....	719	761	810	5.9	6.5
10	Education, training, employment, and social services.....	424	432	501	1.9	16.0
11	Commerce and housing credit.....	468	484	494	3.4	2.1
12	International affairs.....	252	268	182	6.3	-32.1
13	Administration of justice.....	88	98	114	11.4	16.3
14	Community & regional development.....	54	48	48	-11.1	0.0
15	Income security.....	30	37	30	23.3	-18.9
16	General government.....	3	3	3	0.0	0.0

**NOTES:** Because of rounding, components may not add to the totals. Percent change is derived from unrounded data.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

Table 2. Federal R&D budget authority, by budget function: fiscal years 2001–03

2003 rank	Budget function	2001	2002	2003	Percent change	
		actual	preliminary	proposed	2001–02	2002–03
			[In millions of dollars]			
	Total.....	86,756	98,029	107,057	13.0	9.2
1	National defense.....	45,713	52,922	58,259	15.8	10.1
2	Health.....	20,758	23,654	26,615	13.9	12.5
3	Space research and technology.....	6,126	6,556	7,435	7.0	13.4
4	General science.....	5,468	5,717	5,890	4.6	3.0
5	Natural resources and environment.....	2,096	2,159	2,136	3.0	-1.1
6	Agriculture.....	1,657	1,703	1,703	2.8	0.0
7	Transportation.....	1,640	1,696	1,554	3.4	-8.4
8	Energy.....	1,314	1,547	1,408	17.7	-9.0
9	Veterans benefits and services.....	719	761	810	5.9	6.5
10	Education, training, employment, and social services.....	411	417	484	1.5	16.1
11	Commerce and housing credit.....	429	444	387	3.5	-12.8
12	International affairs.....	252	268	182	6.3	-32.1
13	Administration of justice.....	88	98	114	11.4	16.3
14	Community & regional development.....	54	48	48	-11.1	0.0
15	Income security.....	30	37	30	23.3	-18.9
16	General government.....	3	3	3	0.0	0.0

**NOTES:** Because of rounding, components may not add to totals. Percent change is derived from unrounded data.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.

Table 3. Distribution of total Federal R&D budget authority, by function: fiscal years 2001–03

2003 rank	Budget function	2001 actual	2002 preliminary	2003 proposed	
		[In percentages]			
	Total.....	100.0	100.0	100.0	
1	National defense.....	52.7	54.0	54.4	
2	Health.....	23.9	24.1	24.9	
3	Space research and technology.....	7.1	6.7	6.9	
4	General science.....	6.3	5.8	5.5	
5	Natural resources and environment.....	2.4	2.2	2.0	
6	Agriculture.....	1.9	1.7	1.6	
7	Transportation.....	1.9	1.7	1.5	
8	Energy.....	1.5	1.6	1.3	
9	Veterans benefits and services.....	0.8	0.8	0.8	
10	Education, training, employment, and social services.....	0.5	0.4	0.5	
11	Commerce and housing credit.....	0.5	0.5	0.4	
12	International affairs.....	0.3	0.3	0.2	
13	Administration of justice.....	0.1	0.1	0.1	
14	Community & regional development.....	0.1	*	*	
15	Income security.....	*	*	*	
16	General government.....	*	*	*	

**NOTE:** Because of rounding, components may not add to totals.

**KEY:** \* = Less than one-twentieth of one percent.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.

Table 4. Federally funded R&amp;D for national defense and civilian functions: fiscal years 1955–2003

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Fiscal year	Current dollars			Constant 1996 dollars <sup>1</sup>			Percent of total	
	Total	National defense	Civilian functions	Total	National defense	Civilian functions	National defense	Civilian functions
[In millions of dollars]								
1955.....	2,533	2,151	382	12,910	10,963	1,947	84.9	15.1
1956.....	2,988	2,535	453	14,836	12,587	2,249	84.8	15.2
1957.....	3,932	3,327	605	18,822	15,926	2,896	84.6	15.4
1958.....	4,570	3,801	769	21,236	17,663	3,573	83.2	16.8
1959.....	6,694	5,556	1,138	30,608	25,405	5,203	83.0	17.0
1960.....	7,552	6,107	1,445	34,141	27,608	6,533	80.9	19.1
1961.....	9,059	7,005	2,054	40,388	31,230	9,157	77.3	22.7
1962.....	10,290	7,238	3,052	45,370	31,914	13,457	70.3	29.7
1963.....	12,495	7,764	4,731	54,373	33,786	20,587	62.1	37.9
1964.....	14,225	7,829	6,396	61,183	33,673	27,510	55.0	45.0
1965.....	14,614	7,342	7,272	61,767	31,031	30,735	50.2	49.8
1966.....	15,320	7,536	7,784	63,384	31,179	32,205	49.2	50.8
1967.....	16,529	8,566	7,963	66,275	34,346	31,929	51.8	48.2
1968.....	15,921	8,275	7,646	61,614	32,024	29,590	52.0	48.0
1969.....	15,641	8,356	7,285	57,908	30,937	26,971	53.4	46.6
1970.....	15,339	7,981	7,358	53,840	28,013	25,827	52.0	48.0
1971.....	15,543	8,110	7,433	51,949	27,106	24,843	52.2	47.8
1972.....	16,496	8,902	7,594	52,669	28,423	24,246	54.0	46.0
1973.....	16,800	9,002	7,798	51,360	27,521	23,840	53.6	46.4
1974.....	17,410	9,016	8,394	49,686	25,731	23,955	51.8	48.2
1975.....	19,039	9,679	9,360	49,235	25,030	24,205	50.8	49.2
1976.....	20,780	10,430	10,350	50,193	25,193	25,000	50.2	49.8
1977.....	23,450	11,864	11,586	52,685	26,655	26,030	50.6	49.4
1978.....	25,976	12,899	13,077	54,617	27,122	27,496	49.7	50.3
1979.....	28,208	13,791	14,417	54,858	26,820	28,038	48.9	51.1
1980.....	29,739	14,946	14,793	53,115	26,694	26,421	50.3	49.7
1981.....	33,735	18,413	15,322	54,925	29,979	24,946	54.6	45.4
1982.....	36,115	22,070	14,045	54,953	33,582	21,371	61.1	38.9
1983.....	38,768	24,936	13,832	56,505	36,345	20,160	64.3	35.7
1984.....	44,214	29,287	14,927	62,151	41,168	20,983	66.2	33.8
1985.....	49,887	33,698	16,189	67,883	45,854	22,029	67.5	32.5
1986.....	53,249	36,926	16,323	70,753	49,065	21,689	69.3	30.7
1987.....	57,069	39,152	17,917	73,799	50,630	23,170	68.6	31.4
1988.....	59,106	40,099	19,007	74,012	50,212	23,800	67.8	32.2
1989.....	62,115	40,665	21,450	74,901	49,035	25,865	65.5	34.5

See explanatory notes and SOURCES at end of table.

Table 4. Federally funded R&amp;D for national defense and civilian functions: fiscal years 1955–2003

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Fiscal year	Current dollars			Constant 1996 dollars <sup>1</sup>			Percent of total	
	Total	National defense	Civilian functions	Total	National defense	Civilian functions	National defense	Civilian functions
[In millions of dollars]								
1990.....	63,781	39,925	23,856	74,121	46,397	27,723	62.6	37.4
1991.....	65,898	39,328	26,570	73,711	43,991	29,720	59.7	40.3
1992.....	68,398	40,083	28,315	74,556	43,692	30,864	58.6	41.4
1993 .....	69,884	41,249	28,635	74,400	43,915	30,485	59.0	41.0
1994 .....	68,331	37,764	30,566	71,207	39,354	31,853	55.3	44.7
1995.....	68,791	37,204	31,587	70,166	37,948	32,219	54.1	45.9
1996.....	69,049	37,801	31,248	69,049	37,801	31,248	54.7	45.3
1997.....	71,653	39,591	32,062	70,283	38,834	31,449	55.3	44.7
1998.....	73,569	39,823	33,746	71,157	38,517	32,639	54.1	45.9
1999.....	77,637	41,306	36,332	74,124	39,436	34,687	53.2	46.8
2000.....	78,664	42,580	36,084	73,586	39,832	33,755	54.1	45.9
2001.....	86,756	45,713	41,043	79,323	41,796	37,527	52.7	47.3
2002.....	98,029	52,922	45,107	87,706	47,349	40,357	54.0	46.0
2003.....	107,057	58,259	48,798	94,091	51,203	42,888	54.4	45.6

<sup>1</sup> Calculated using fiscal year GDP implicit price deflators with 1996 as the base year.

**NOTES:** The national defense function includes Department of Defense's military activities and Department of Energy's atomic energy defense program. Civilian functions include all other Federally funded R&D activities. Data for 1955–77 are obligations. Data for 1978–2001 are actual budget authority. Data for 2002 are preliminary estimates of budget authority. Data for 2003 are budget authority proposed by the administration.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

Table 5. Federal budget authority for basic research, by budget function: fiscal years 2001–03

2003 rank	Budget function	2001	2002	2003	Percent change	
		actual	preliminary	proposed	2001–02	2002–03
	Total.....	21,376	23,635	25,499	10.6	7.9
4	National defense.....	1,303	1,392	1,383	6.9	-0.7
1	Health.....	11,642	13,193	14,379	13.3	9.0
3	Space research and technology.....	1,695	1,967	2,361	16.0	20.1
2	General science.....	5,187	5,398	5,649	4.1	4.6
7	Natural resources and environment.....	215	220	208	2.0	-5.1
5	Agriculture.....	749	808	831	7.9	2.8
12	Transportation.....	17	13	25	-23.7	92.6
10	Energy.....	40	68	57	71.2	-15.7
6	Veterans benefits and services.....	289	329	351	13.7	6.9
8	Education, training, employment, and social services.....	112	115	117	2.7	1.7
9	Commerce and housing credit.....	50	52	73	4.0	40.4
11	International affairs.....	50	53	39	6.0	-26.4
13	Administration of justice.....	27	27	25	0.0	-7.4
--	Community & regional development.....	0	0	0	NA	NA
--	Income security.....	0	0	0	NA	NA
--	General government.....	0	0	0	NA	NA

**NOTES:** Because of rounding, components may not add to totals. Percent change is derived from unrounded data. The order of budget functions is the same as order for Federal R&D budget authority, by budget function shown in table 2.

**KEY:** NA = Not applicable

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.

**Table 6. Federal R&D budget authority as a percentage of total budget authority by budget function: fiscal years 2001–03**

2003 rank	Budget function	2001 actual	2002 preliminary	2003 proposed
	All functions conducting R&D.....	7.5	7.9	8.0
4	National defense.....	13.9	15.1	14.7
5	Health.....	11.4	11.8	11.4
3	Space research and technology.....	45.6	46.6	52.1
2	General science.....	70.9	70.6	70.2
7	Natural resources and environment.....	7.0	7.0	7.1
6	Agriculture.....	5.7	5.9	7.2
9	Transportation.....	2.4	2.6	2.4
1	Energy <sup>1</sup> .....	782.1	252.8	271.8
10	Veterans benefits and services.....	1.5	1.5	1.4
12	Education, training, employment, and social services.....	0.6	0.5	0.6
8	Commerce and housing credit.....	3.5	4.2	2.7
11	International affairs.....	1.4	1.2	0.8
14	Administration of justice.....	0.2	0.3	0.3
13	Community & regional development.....	0.4	0.3	0.3
16	Income security.....	*	*	*
15	General government.....	*	*	*

<sup>1</sup> R&D as percentage of total budget authority is greater than 100 percent because gross budget authority has been reduced by offsetting receipts.

**NOTES:** Total budget authority includes discretionary and mandatory budget authority, less offsets. The order of budget functions is the same as order for Federal R&D budget authority, by budget function shown in table 2.

**KEY:** \* = Less than one-fiftieth of 1 percent.

**SOURCES:** Agencies' submissions to Office of Management and Budget (OMB), MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.